

098603-05101
250-290E9860

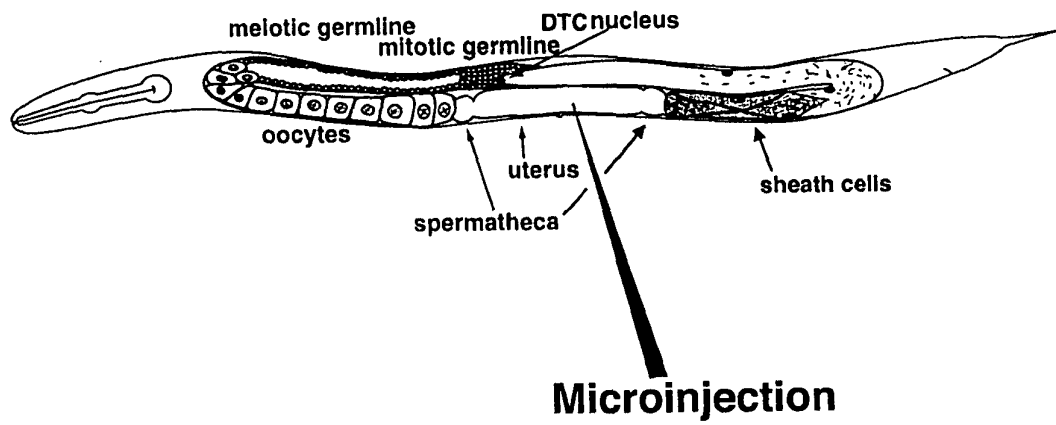


FIG. 1

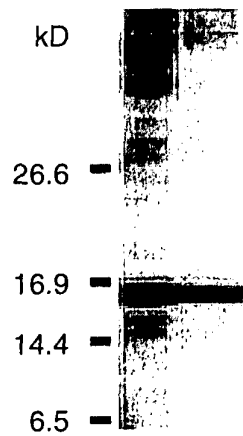


FIG. 2

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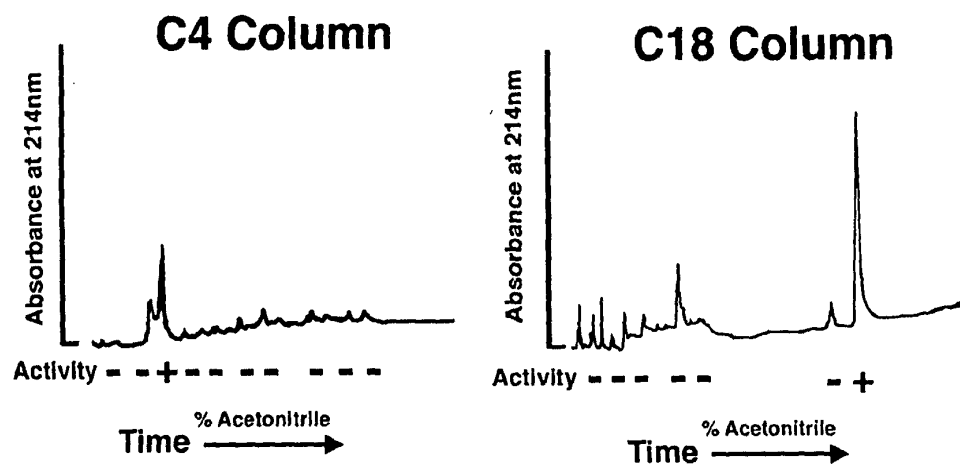


FIG. 3

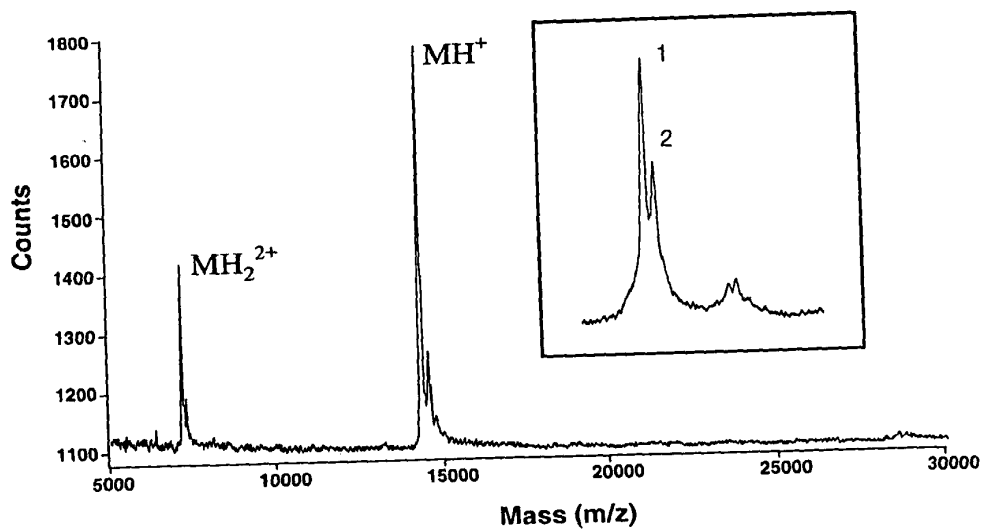


FIG. 4

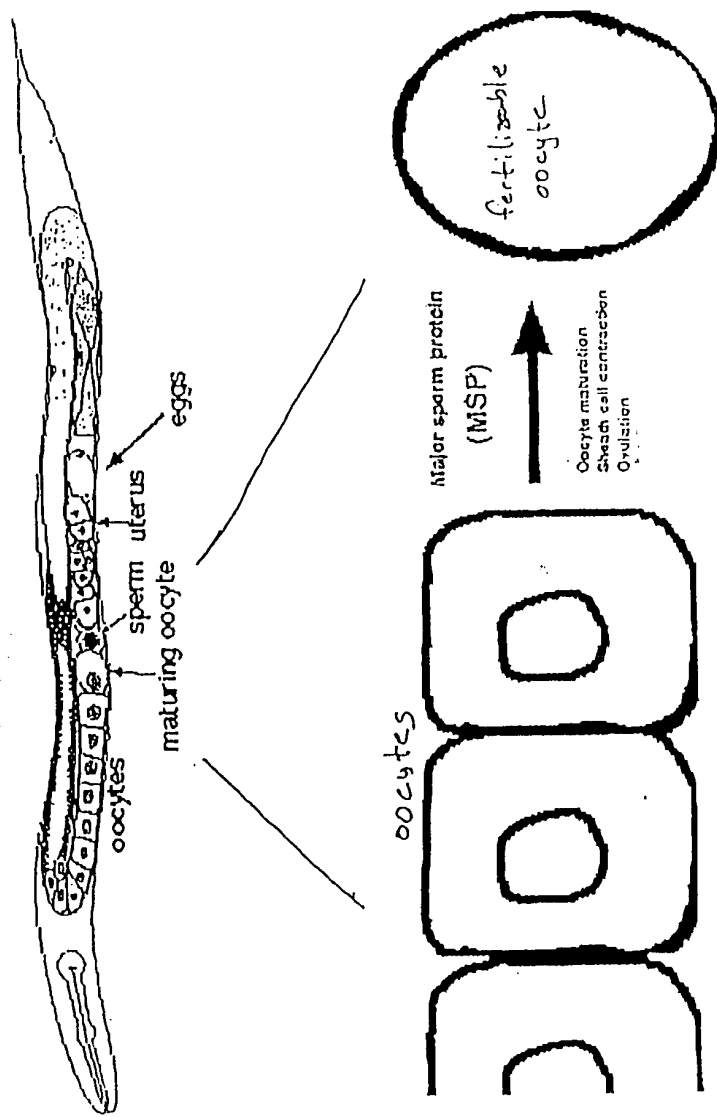


FIG. 5

	10	20	30	40	50	60	70
MSP-3	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-10	MAQSVPPGDIQTQPNAKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-19	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-31	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-33	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-38	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTDHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-40	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-45	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-49	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-50	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-51	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-53	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-55	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIVYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-56	MAQSVPPGDIQTQPNAKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-57	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIVYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-59	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-63	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYRIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-64	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-65	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-76	MAQSVPPGDIQTQPNAKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-77	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-78	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-79	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-81	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-113	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-142	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						
MSP-152	MTQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL						

FIG. 6

	80	90	100	110	120	127	
MSP-3	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:2		
MSP-10	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:3		
MSP-19	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:1		
MSP-31	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:1		
MSP-33	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:4		
MSP-38	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:5		
MSP-40	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:1		
MSP-45	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:1		
MSP-49	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:6		
MSP-50	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:1		
MSP-51	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:1		
MSP-53	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:1		
MSP-55	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:7		
MSP-56	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:3		
MSP-57	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:7		
MSP-59	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:1		
MSP-63	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:8		
MSP-64	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:1		
MSP-65	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:1		
MSP-76	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:3		
MSP-77	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:9		
MSP-78	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:10		
MSP-79	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:9		
MSP-81	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:1		
MSP-113	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:1		
MSP-142	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:1		
MSP-152	LAVSCDAFAFGQEDTNNDRI	TVIEWTNTPDGAARQFRREWFQGDGMVRRKNLP	SEQ	ID	NO:3		

FIG. 6 - Continued

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MSP-142	MAQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRRIGYGIKTTNMKRLGVDPPCGVLDPK <u>EA</u> VL	10	20	30	40	50	60	70
P27439	MAQSVPPGDINTQPSQKIIVFNAPYDDKHTYHIKITNAGGRRIGWAIKTTNMRRRLSVDPGCGVLDPK <u>EV</u> VL							
P27440	MAQSVPPGDINTQPGSKIIVFNAPYDDKHTYHIKITNAGGRRIGWAIKTTNMRRRLGVDPPCGVLDPK <u>ES</u> VL							
MSP-142	LAVSCDAFAFGQEDTNNDRITVETNTPDGAAKQFRREWFQDGMVRRKNLPIEYNP	80	90	100	110	120	127	
P27439	MAVSCDTFNAATEDLNNDRITIEWTNTPDGAAKQFRREWFQDGMVRRKNLPIEYNL							SEQ ID NO:1
P27440	MAVSCDTFNAATEDLNNDRITIEWTNTPDGAAKQFRREWFQDGMVRRKNLPIEYNL							SEQ ID NO:11
								SEQ ID NO:12

FIG. 7

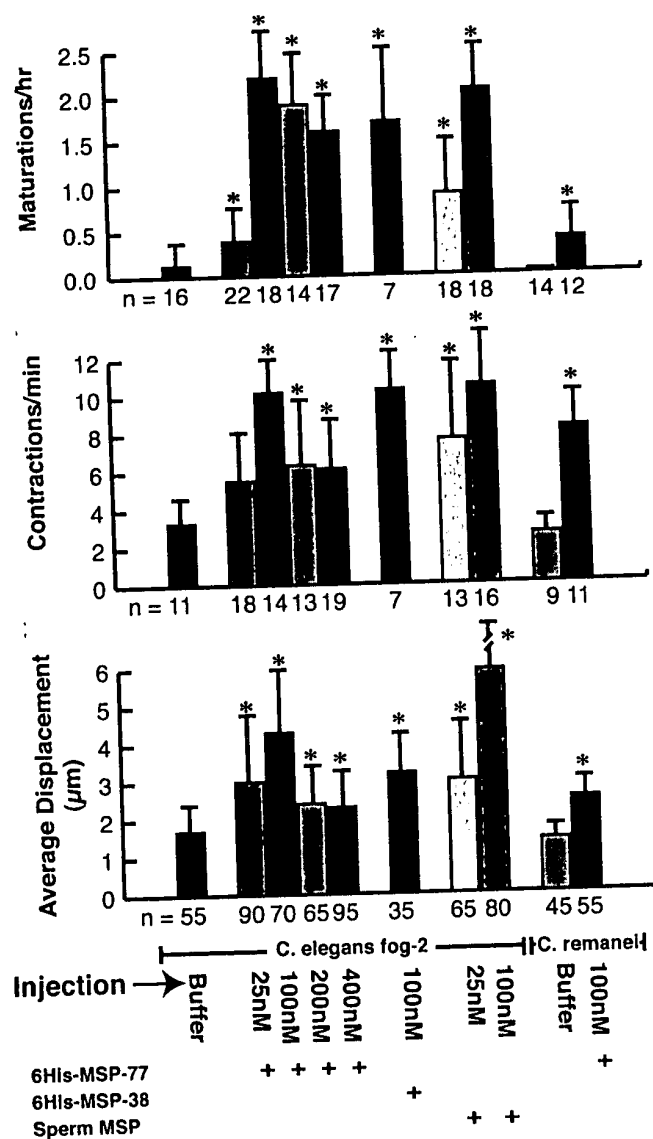


FIG. 8

	110	120
AsMSP α	REWFQGDGMVRRKNLP	IEYNL
AsMSP β	REWFQGDGMVRRKNLP	IEYNL
GrMSP1	LEWFQGDGMVRRKNLP	IEYNV
GrMSP2	LEWFQGDGMVRRKNLP	IEYNV
GrMSP3	LEWFQGDGMVRRKNLP	IEYNV
CeMSP142	REWFQGDGMVRRKNLP	IEYNP
CeMSP33	REWFQGDGMVRRKNLP	IEYNP
OvMSP1	REWFQGDGMVRRKNLP	IEYNL
OvMSP2	REWFQGDGMVRRKNLP	IEYNL

FIG. 9

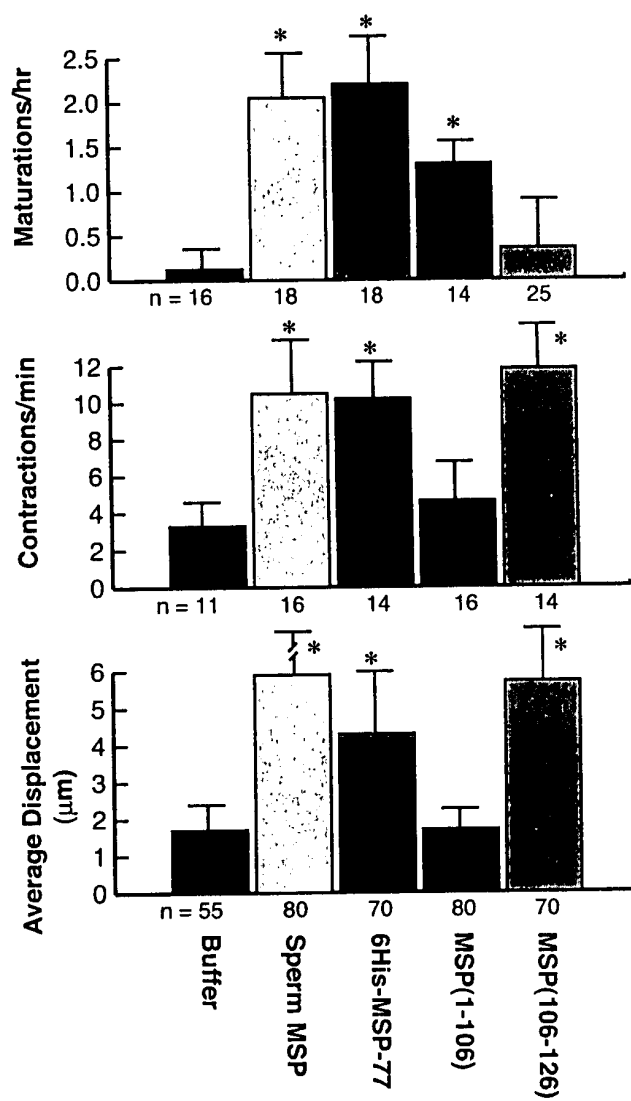


FIG. 10